Amendments to Claims

1-15. (canceled)

16. (currently amended) A display system for passive displays, wherein the display system is configured to receive an input signal including both display control data and image data ~~representing illumination characteristics of an input image or scene has been incorporated in a transfer media~~, the display system comprising

a control configured to process the display control ~~responsive to such~~ data included in the input signal and to control the optical characteristics of incident light to a passive display and to process the image data to control optical characteristics of ~~maximize shades of gray in~~ the displayed image based on the display control data.

17. (canceled)

18. (canceled)

19. (currently amended) An image processing system for preparing control data for use in displaying a sequence of images, such control data to be included with input image data to a passive display with an illuminating light source and used to control images displayed by the passive display and the illuminating light source, the image processing system comprising:

an ~~input~~ a buffer memory to receive ~~the input~~ image data representative of the sequence of images ~~information for use in operating a light modulating display to provide a sequence of images~~,

an analyzer configured to analyze ~~illumination characteristics~~ image data of a plurality ~~a number~~ of images of ~~such a~~ the sequence of images, to create illumination control data ~~to obtain light control information~~ for use in controlling optical characteristics of the incident light to a light modulating display and to create image control data for controlling processing of the image data in the passive display to control ~~gamma so as~~ to ~~maximize shades of gray~~ characteristics of displayed images, and to

include the control data together with the input image data in a combined output signal
of the image processing system to be used as the input to a passive display with an
illuminating light source.

20. (currently amended) The system of claim 19, further comprising a transfer
media for transferring the combined output signal including the control data and the
image data to a display image information and light control information to a display
system, said transfer media comprising at least one of broadcast radio signals and
modulated or video signals that include the control data with the image data.

21. (currently amended) The system of claim 20, said transfer media comprising
a storage medium, said storage medium comprising at least one of a dvd, cd, tape,
computer memory[,] or hard drive.

22. (currently amended) The system of claim 19, further comprising a
multiplexer for time multiplexing the control data with the image data light control
information with image information representing images of the sequence of images.

23. (canceled)

24. (currently amended) A display system, comprising
a passive display,
a source of illumination to illuminate the passive display and cooperative with the
passive display to present images, and
a transfer storage medium providing an input signal including display control data
and image data, the display control data including illumination control data to control
optical characteristics of light from the source of illumination and gamma image control
data to control characteristics of displayed images to maximize the number and/or
shades of gray in respective displayed images by the passive display, and wherein the
display control data is based on an evaluation of illumination of an input scene

represented by an image for display, the evaluation occurring prior to storage of the
display control data on the storage medium.

25. (currently amended) The system of claim 24, wherein the display control
data is based on an evaluation of illumination of an input scene represented by several
images for display, and wherein the passive display is operable to display a sequence of
images, and wherein the several images include a number of images in the sequence of
images preceding or following a given image for display.

26-35. (canceled)

36. (currently amended) An image processing system for providing preparing a
signal that includes image data and control data for display by an illuminated a passive
display with an illuminating light source, the image processing system comprising
an image obtaining device to provide image data representing input scenes,
an image processing apparatus configured to evaluate the illumination of image
data of input scenes, and to provide display control data to be included with the image
data, the display control data including illumination control data to control the optical
characteristics of an illumination source for a passive display, and image processing
control data to control processing of wherein the illumination data controls optical
characteristics of an illumination source to maximize contrast or shades of gray in an
image displayed by the illuminated passive display.

37. (currently amended) A method of editing and encoding images represented
by image data captured by an image recording device, which where the captured
images are composed of an assemblage of pixels for display or projection using a
passive display to which input light is incident to provide images, comprising
adjusting determining display control data to be used in the display to obtain a
desired appearance of a displayed image including control data for a characteristic of

the input light and control data for the number of shades of gray available in to obtain a desired appearance of the displayed image, [and]

adding the determined display control data to the image data, the display control data corresponding to the adjusted light characteristic and number of shades of gray, and

storing both the display control data and the image data the adjusted characteristic for use subsequently to adjust the characteristic of input light and number of shades of gray available in the image to obtain a desired appearance of the image provided by a passive display with an illuminating light source.

38. (currently amended) The method of claim 37, further comprising visually viewing an image while determining the display control data to adjusting a characteristic of the input light and a number of shades of gray available in the image to obtain a desired appearance of the displayed image.

39. (original) The method of claim 37, said adjusting comprising manually adjusting.

40. (canceled)

41. (currently amended) The method of claim 37, further comprising obtaining the illumination of an input a captured scene portrayed by an image, and said adjusting comprising adjusting input light adding display control data to provide an image having illumination that is substantially the same as the input captured scene.

42. (currently amended) The method of claim 41, said obtaining comprising at least one of obtaining an average value of the illumination of the input captured scene, computing the illumination of the input captured scene by obtaining a spatial distribution of light intensity over the area of the input scene, and obtaining illumination information from a number of images of respective scenes.

43. (original) The method of claim 42, wherein the image is a given image in a sequence of images assembled to provide a motion picture effect, and wherein said obtaining illumination information from a number of images of respective scenes comprises obtaining such illumination information from a number of images in the sequence that precede or follow the given image in the sequence.

44-48. (canceled)

49. (new) The display system of claim 16, wherein the control is configured to process the display control data and the image data to maximize shades of gray in the displayed image based on the display control data.

50. (new) The system of claim 19, wherein the analyzer is configured to create image control data to maximize shades of gray of displayed images.

51. (new) The system of claim 19, wherein the analyzer is configured to create image control data to control gamma of the passive display.

52. (new) The display system of claim 24, wherein the image control data modifies gamma of the passive display.

53. (new) The display system of claim 24, wherein the image control data maximizes shades of gray in respective displayed images.

54. (new) The display system of claim 24, wherein the image control data maximizes a number of shades of gray in respective displayed images.

55. (new) The system of claim 36, wherein the image processing control data maximizes shades of gray in an image displayed by the illuminated passive display.

56. (new) The system of claim 36, wherein the image processing control data controls gamma of the illuminated passive display.

57. (new) A display system comprising:

a passive display;

an illumination source to illuminate the passive display and cooperate with the passive display to display images; and

display circuitry operatively coupled to the passive display and the illumination source and configured to receive an input signal wherein the input signal includes both image data and display control data; and

wherein the display circuitry is configured to process the display control data included in the input signal, and to process the image data included in the input signal to the passive display and control the level of the illumination source based on the display control data.

58. (new) The display system of claim 57, wherein the display control data includes illumination control data for controlling the source of illumination, and the display circuitry is configured to control the source of illumination based on the illumination control data.

59. (new) The display system of claim 57, wherein the display control data further includes image modification data, and the display circuitry is configured to process the image data within the input signal using the image modification data to control the passive display to maximize the shades of gray of the displayed image.

60. (new) The display system of claim 57, wherein the display control data further includes image modification data, and the display circuitry is configured to process and modify the image data within the input signal to control the passive display to maximize the shades of gray of the displayed image.

61. (new) The display system of claim 57, wherein the display control data includes gamma control data, and the display circuitry is configured to process and modify the image data within the input signal to control the passive display by modifying the gamma of the passive display

62. (new) The display system of claim 57, wherein the display control data includes gamma control data for controlling gamma of the displayed image.

63. (new) The display system of claim 57, wherein the display control data includes color control data for controlling the passive display and/or the illumination source, and the display circuitry is configured to control the passive display and/or the source of illumination to maximize color fidelity of the displayed image based on the color control data.

64. (new) The display system of claim 57, wherein the illumination source includes a red light source, a green light source and a blue light source, and the display control data includes color control data for controlling the source of illumination based on the color control data.

65. (new) A display system comprising:
a passive display;
an illumination source to illuminate the passive display and cooperate with the passive display to display images; and
display circuitry operatively coupled to the passive display and the illumination source and configured to receive an input video signal indicative of an image to be displayed, wherein the input video signal includes image data and display control data; and

wherein the display circuitry includes decoding circuitry configured to decode and process the display control data within the input video signal and control the passive display and the illumination source based on the display control data.